

[54] **PROCESS FOR PRODUCING
NON-COMBUSTIBLE GYPSUM BOARD
AND NON-COMBUSTIBLE LAMINATED
GYPSUM BOARD**

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[56] **References Cited**

U.S. PATENT DOCUMENTS

3,616,173 10/1971 Green et al. 106/109 X
4,190,455 2/1980 Bijen et al. 106/109 X
4,286,994 9/1981 Müller et al. 106/109

FOREIGN PATENT DOCUMENTS

51-19449 6/1976 Japan .
53-25339 7/1978 Japan .
55-36628 9/1980 Japan .

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[57] **ABSTRACT**

A novel process for producing a non-combustible gypsum board and a non-combustible laminated gypsum board having superior practical physical properties, smoothly and efficiently is provided, which process is characterized by preparing a mixture consisting of a powdery gypsum consisting of 50 to 95 parts by weight of a hydrating gypsum and 5 to 50 parts by weight of gypsum dihydrate, a definite amount of fibers and a definite amount of a caking retarder and a necessary amount of water; molding the mixture before the hydrating gypsum is hydrated; and setting and drying the resulting molded material.

20 Claims, 5 Drawing Figures

